

Date: Sun, 15 May 94 04:30:21 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V94 #146  
To: Ham-Equip

Ham-Equip Digest                      Sun, 15 May 94                      Volume 94 : Issue    146

Today's Topics:

ALINCO 580 Question (2 msgs)  
  Crystals for Tempo One  
  DSP59==>DSP59+ UPGRADE  
  Gel Cell Info Sought  
  HELP on KDK Radios  
  Kenwood TM-642 mods  
  Low Pass Filter Suggestions  
  Motorola Walkies wanted!!  
Newbie WARNING to fellow Newbies  
  Regency Manuals - For Sale  
  Yeasu FT-530 (2 msgs)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 14 May 94 14:23:29 GMT  
From: news1.digex.net!access.digex.net!not-for-mail@uunet.uu.net  
Subject: ALINCO 580 Question  
To: ham-equip@ucsd.edu

Cutting the blue wire, I believe, opens up the ability to transmit on the  
aircraft band - a VERY dangerous 'feature' to add as if you transmit  
accidentally on that band, you will be sure to see one of those little  
ugly green FCC trucks pulling up to your house within 5 minutes.

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Date: 14 MAY 94 18:50:28 AST  
From: ihnp4.ucsd.edu!agate!spool.mu.edu!torn!news.unb.ca!  
UNBVM1.CSD.UNB.CA@network.ucsd.edu  
Subject: ALINCO 580 Question  
To: ham-equip@ucsd.edu

In article <2r2mt1\$kkk@access3.digex.net> larry@access.digex.net (Larry Rubin) writes:

>Cutting the blue wire, I believe, opens up the ability to transmit on the  
>aircraft band - a VERY dangerous 'feature' to add as if you transmit

The air band is AM. This radio can receive on AM, but cannot transmit on it. Mods can allow you to transmit on VHF-UHF bands, useful for MARS/CAP and some emergency work that allows you to TX legally wherever it is useful

Luis Nadeau VE9LN

>accidentally on that band, you will be sure to see one of those little  
>ugly green FCC trucks pulling up to your house within 5 minutes.

>

>

>.

>.

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Date: 13 May 1994 08:55:33 -0700  
From: nnnp.crl.com!crl.crl.com!not-for-mail@decwrl.dec.com  
Subject: Crystals for Tempo One  
To: ham-equip@ucsd.edu

I need crystals for the Tempo One to run on 10 meters. Please e-mail me at nettech@crl.com

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Joseph Stroup

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Date: Sat, 14 May 1994 15:42:43 GMT  
From: ihnp4.ucsd.edu!agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!  
rogjd@network.ucsd.edu  
Subject: DSP59==>DSP59+ UPGRADE  
To: ham-equip@ucsd.edu

Anyone got info on the upgrade terms and what is involved in upgrading the DSP 59 to the 59+ ?

73

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rogjd@netcom.com  
Glendale, CA  
AB6WR

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Date: Fri, 13 May 1994 09:42:16  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
europa.eng.gtefsd.com!news.umbc.edu!eff!news.kei.com!ssd.intel.com!chnews!  
ornews.intel.com!ccm.hf.intel.@@ihnp4.ucsd.edu  
Subject: Gel Cell Info Sought  
To: ham-equip@ucsd.edu

>LARRY WALD (lwwald@lmsmgr.lerc.nasa.gov) wrote:  
>: There have been some great posts on charging/caring for Gel Cells  
>: over the years on the net. I picked up a couple at Dayton and I  
>: would like to get a better idea of how to charge them. If someone  
>: can get me some info or tell me where some of this info is posted  
>: I would appreciate it.

Here is some info I compiled from various sources on lead-acid (and SLA).  
Corrections welcome. Most of this came from mfg. data sheets.

#### SEALED LEAD ACID BATTERIES FACT SHEET

##### CHARGING

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Quick Reference: Float: 13.65v  
Cycle: 14.70v

Float Charge: 2.25v to 2.28v per cell (Power Sonic) 12v = 13.50 to 13.68  
2.25v to 2.30v per cell (Yuasa) 2.275v/cell recommended  
Current: No limit (battery will only draw what it needs)

Cycle Charge: 2.40v to 2.45v per cell (Power Sonic) 12v = 14.40 to 14.70  
2.40v to 2.50v per cell (Yuasa) 12v = 14.4 to 15.00  
Current: Normal is 20% of capacity. Max is 25% capacity  
Charge to 2.45v/cell (12v = 14.70v) until current drops to 0.01C  
then switch to float setting.

A fully charged battery will rest at 13.5v to 13.8v

Equalizing Gell-cells is not recommended

Sealed batteries do not vent. Venting implies damage to battery.

#### DISCHARGING

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Depth of discharge depends upon the load. If the load is small the voltage should not drop as low. If the load is large the voltage can drop lower.

Discharge limits: at 0.1C - 10.7v  
0.2C - 10.5v  
0.6C - 9.7v  
1C - 9.1v

Cycle service will provide about 1200 cycles at 30% depth of discharge(DOD)  
Float Service will cause capacity to drop to 80% after 3.5 years, and 40%  
after 4.5 years.

Battery will self discharge at about 3% a month. An idle battery should be boosted every 9 months.

For current calculations based on capacity, keep in mind that older batteries will not have the same capacity as the battery is labeled. This is particularly important in calculating DOD.

#### TESTING

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BATTERY SHOULD BE AT REST FOR AT LEAST ONE HOUR.

#### CONSTRUCION

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GELL-CELL: Lead Calcium (Power Sonic) or Lead Antimony

CHARGED:ANODE:LEAD DIOXIDE, CATHODE:LEAD ELECTROLYTE:25% SULPHURIC ACID  
75%  
WATER.

DISCHARGED:ANODE:LEAD SULPHATE, CATHODE:LEAD SULPHATE ELECTROLYTE: 5%  
SULPHURIC ACID, 95% WATER  
TEMPERATURE: LOSES 20% CAPACITY AT 40F

Brett Miller N70LQ  
Intel Corp.  
American Fork, UT

brett\_miller@ccm.hf.intel.com

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Date: 13 May 1994 01:27:05 GMT  
From: eng.iac.honeywell.com!ws07.iac.honeywell.com!dphillips@uunet.uu.net  
Subject: HELP on KDK Radios  
To: ham-equip@ucsd.edu

I Need a reprint of the manual for a KDK FM-2030. Anyone out there know where I can obtain one ?????

--

Dave Phillips		"Takeoffs are optional,
Phoenix, AZ, USA		Landings are mandatory"
dphillips@ips.iac.honeywell.com		

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Date: Sat, 14 May 1994 02:06:58 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!cherokee!walter!alta.bae.bellcore.com!rdg@network.ucsd.edu  
Subject: Kenwood TM-642 mods  
To: ham-equip@ucsd.edu

I just got a new Kenwood TM-642. I would like to get copies of any mods for this radio.

Thanks for any information.

Randy Gutentag - WA2RMZ  
rdg@bae.bellcore.com

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Date: Fri, 13 May 1994 21:34:04 GMT  
From: wri!pea@uunet.uu.net  
Subject: Low Pass Filter Suggestions  
To: ham-equip@ucsd.edu

OK, I've got my wire up and have used ladder line to run it to my MFJ Dif-T tuner. Several people have mentioned that it's a good idea to stick a low pass filter between this tuner and the rig because of some harmonics problem(?).

My question is does anyone have a good schematic or plan for a good low pass filter you would recommend to use in this applicxation??

Thanks for the feedback!

Bruce, N9WKE

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Date: Wed, 11 May 94 08:53:00 -0800  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!swrinde!elroy.jpl.nasa.gov!  
netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!news.claremont.edu!kaiwan.com!  
ledge!darryl.linkow@network.ucsd.  
Subject: Motorola Walkies wanted!!  
To: ham-equip@ucsd.edu

Hello all! I am in IMMEDIATE NEED of some Motorola walkie-talkies. I am looking for either Motorola HT-600, MT-1000, or Motorola Radius P200 units. They must be 5 Watt units and have at least 6 channels and must cover the 157-174 Mhz. range. I am also interested in accesories for these units, such as speaker/microphones, headsets, etc. Let me know what you have. WILL PAY CASH or can trade for hardware and/or software items from my ads. Leave message here or give me a call.

Darryl Linkow

(818) 346-5278 9 am - 5 pm PDT

(The VERY BEST time to reach me is ANY MORNING right at 9 am PDT)

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≥ OLX 2.2 ≥ Darryl Linkow (818)346-5278 9 am - 5 pm PDT

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Date: 13 May 94 07:44:26 GMT  
From: illuminati.io.com!nobody@uunet.uu.net  
Subject: Newbie WARNING to fellow Newbies  
To: ham-equip@ucsd.edu

>Try using an earphone or VOX headset while mobile. The volume doesn't have to  
>be turned up as loud which saves on batteries. Having the sound source sticking  
>in your ear makes it a whole lot easier to hear than a sound source two feet  
>away. With the windows open I doubt the VOX would be useful, in that instance  
>just use the PTT when you want to transmit.

>

Agreed. The sigle-earpiece/throat-microphone rig you can buy is a really good investment for HT's. I've tested two of them, and found their performance to be very good. It's better to get the complete package, which has earpiece, mike, and an inline PTT button.

>What are the legalities of using a headset/earphone while mobile? I searched  
>the Indiana Code index the other day and didn't find anything related to it.

>

In Michigan, it is ILLEGAL to wear a full headset while driving. Full refers to having both ears covered, or the ear canal with

insertions. It is LEGAL for you to wear a one piece earphone or one sided headset, like the kind you see at drive-throughs at McDonalds.

For the sake of safety, this is why it is illegal. It is easier to hear emergency sirens in most cases than it is to see them. The idea is to utilize both visual and auditory senses, not eliminate or otherwise engage the other. This is why in some areas you can be pulled over and ticketed for having loud music/etc from your car which isn't above the 'disorderly conduct' statute, but is above the awareness threshold. Go make sense outta that one!

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.....  
Matt Rupert | 2984 Pheasant Run Drive Apt D | Jackson, MI 49202 | (517) 782-1438  
Security - Organization Meetings/Bookings - Professoinal Harasser  
UNIX / Amateur Radio enthusiast KB8SGL

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Date: 13 May 1994 16:01:34 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!mane.cgrg.ohio-state.edu!aus1.robins.af.mil!wrdis02.robins.af.mil!  
lakeith@network.ucsd.edu  
Subject: Regency Manuals - For Sale  
To: ham-equip@ucsd.edu

I have limited quantities of the following Regency Service Manuals for sale. Prices include postage.

Regency HR-2 Series 2 Meter Transceiver	\$10.00
Model ACT-E10H/L/U Monitoradio Receiver	\$5.00
Model ACT-E16H/L, ACT-E16H/L/U Monitoradio Receiver	\$5.00
Model ACT-M8H,L,H/L Monitoradio Receiver	\$5.00
Model MT-15S VHF Marine Transcan	\$10.00
Model MT-25 VHF Marine Transceiver	\$10.00
Model MT-120 VHF Marine Transceiver	\$10.00
Model TME-16U UHF Monitoradio Receiver	\$5.00
Model TMR-8H/LL, TMR-8H/LM, TMR-8H/LH Monitoradio Receiver	\$5.00

Larry Keith

231 Shenandoah Trail  
Warner Robins, GA 31088-6289

912-329-0030 (4-10 PM EDT only, please)

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Date: Fri, 13 May 1994 17:31:04 GMT  
From: news.crd.ge.com!NewsWatcher!user@uunet.uu.net  
Subject: Yeasu FT-530  
To: ham-equip@ucsd.edu

OK. I'm convinced not to buy the Rat Shack HT but instead, I'm now looking at the FT-530. With all the good features this radio has, what are the cons (other than being double in price)? My brother has this rig and loves it. While I will have 8 - 12 weeks to wait for my ticket from the FCC, I think it's worth saving the extra \$200.

Scott Van Nostrand  
(insert call sign here. . . .)

vannossc@ipssmail.sch.ge.com

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Date: Fri, 13 May 1994 23:19:09 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!nic-nac.CSU.net!usc!  
howland.reston.ans.net!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!krypton.hpc.sdsmt.edu!  
ep06\_ee.sdsmt.edu!hpaik@network.ucsd.edu  
Subject: Yeasu FT-530  
To: ham-equip@ucsd.edu

>OK. I'm convinced not to buy the Rat Shack HT but instead, I'm now  
>looking at the FT-530. With all the good features this radio has,  
>what are the cons (other than being double in price)? My brother  
>has this rig and loves it. While I will have 8 - 12 weeks to wait  
>for my ticket from the FCC, I think it's worth saving the extra \$200.

>Scott Van Nostrand  
>(insert call sign here. . . .)

>vannossc@ipssmail.sch.ge.com

I like ft530 except one thing.  
The rubber knob (memory dial) was fell off a few times, I has been lucky so far because I found all the times. Now I glued it.  
Also I noticed that power on switch has been turn on and off accidently.  
TH78 does not do that, where you have to press a little bit longer



than ft530. Otherwise, this little 530 is very fine.

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Date: 13 May 1994 00:38:24 GMT  
From: parc!biosci!agate!kabuki.EECS.Berkeley.EDU!kennish@decwrl.dec.com  
To: ham-equip@ucsd.edu

References <2qp6r0\$joh@news.nd.edu>, <hawley.768683905@aries>,  
<1994May12.150314.3237@eisner>.,  
Subject : Re: Newbie WARNING to fellow Newbies

In article <1994May12.150314.3237@eisner>,  
Michael D Brown <brown\_mi@eisner.decus.org> wrote:

>Although this discussion is better carried out in policies newsgroup, when I  
>was a ham in Indiana I was told to only have one ear covered. Also, at the  
>time, it was STRONGLY recommended that we carry a photocopy of our license  
>with us at all times even if we had ham plates on the car. Sometimes that  
>little piece of paper with an FCC seal on it helps convince the local deputy  
>that you are legit.

>

>

>Mike

>KF9VC

Hmm... I think this recommendation is kinda moot, since we all follow  
the FCC rules to the letter, which states:

97.9 Operator license. - (a) There are 5 classes of operator li-  
censes: Novice, Technician, General, Advanced and Amateur Extra. An oper-  
ator license authorizes the holder to be the control operator of a station  
with the privileges of the operator class specified on the license. The  
license document or a photocopy thereof must be in the personal possession  
of the licensee at all times when the person is the control operator of a  
station.

Looks like driving a car or not, you have better have that little piece  
of paper with an FCC seal on it. The Candy Company may have a field  
day with you if you don't :-)

Ken

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Date: Sat, 14 May 94 06:24:45 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!ncar!uchinews!iitmax!  
news@network.ucsd.edu  
To: ham-equip@ucsd.edu

References <1994May10.042331.13299@iitmax.iit.edu>, <2qp6r0\$joh@news.nd.edu>,  
<hawley.768683905@aries>x  
Subject : Headsets while mobile (was: Newbie warning)

> In Illinois, an licensed amateur radio operator with an amateur radio  
> license PLATE on the car, can use a headset with ONE earphone. This is  
> a state law in Illinois.  
> Chuck Hawley KE9UW, Urbana,IL

Thanks very much for this EXTREMELY pertinent little tidbit!  
It just so happens that I do have a homebrew headset (single ear) and I do have  
amateur plates. Now I just have to fix the headset (again...) Think I'll  
use the PTT switch out of the old speaker-mic :)

73 de N9THH

Arthur M. Mandelin, II ("The Artation") CMSMANDELIN@harpo.acc.iit.edu  
"...grey would be the color, if i had a heart."  
-- nine inch nails, "something i can never have" (pretty hate machine)

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End of Ham-Equip Digest V94 #146  
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